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46

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE
(Rev. 2-32) PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

SERIAL NO.

NHL-NP-37

10/057,311

APPLICANT

JUNGHANS et al.

FILING DATE

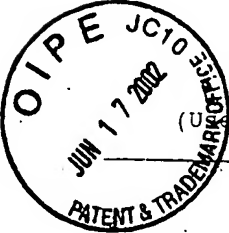
January 24, 2002

GROUP

1614

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(U several sheets if necessary)



U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AA	5 7 5 0 6 6 9	5/1998	Rüsch et al.			
AB	5 6 6 3 1 5 3	9/1997	Hutcherson et al.			
AC	5 7 2 3 3 3 5	3/1998	Hutcherson et al.			
AD	5 8 5 6 4 6 2	1/1999	Agrawal			
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FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
AL	2 7 3 2 9 7 1	10/1996	France				X
AM	9 8 2 1 3 2 2	5/1998	International	(Abstract only)		X	
AN	0 8 5 5 1 8 4	7/1998	Europe			X	
AO	9 8 1 8 8 1 0	5/1998	International			X	
AP							

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

5	AQ	Kreig AM, Yi AK, Matson S, Waldschmidt TJ, Bishop GA, Teasdale R, Koretzky GA, Klinman DM; CpG motifs in bacterial DNA trigger direct B-cell activation; Nature 1995 Apr 6 374:6522-546-9
6	AR	Seder RA and Paul WE, Acquisition of lymphokine-producing phenotype by CD4+ T cells; Annu Rev Immunol. 1994;12:635-73
X	AS	Melief CJ, Kast WM; T-cell immunotherapy of cancer; Res Immunol 1991 Jun-Aug;142(5-6):425-9

EXAMINER

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6/	AQ'	Pasternak G, Hochhaus A, Schultheis B, Hehlmann R; Chronic myelogenous leukemia: molecular and cellular aspects: J Cancer Res Clin Oncol 1998;124(12):643-60
9/	AR'	Weber LW, Bowne WB, Wolchok JD, Srinivasan R, Qin J, Moroi Y, Clynes R, Song P, Lewis JJ, Houghton AN; Tumor immunity and autoimmunity induced by immunization with homologous DNA; J Clin Invest 1998 Sep 15;102(6):1258-64
10/	AS'	Surman DR, Irvine KR, Shulman EP, Allweis TM, Rosenberg SA, Restifo NJ; Generation of polyclonal rabbit antisera to mouse melanoma associated antigens using gene gun immunization; Immunol Methods; 1998 May 1;214(1-2):51-62

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✓	AQ"	Kovarik J, et al. CpG oligodeoxynucleotides can circumvent the Th2 polarization of neonatal responses to vaccines but may fail to fully redirect Th2 responses established by neonatal priming; J Immunol. 1999 Feb 1;162(3):1611-7
12	AR"	Krieg AM, Wu T, Weeratna R, Efler SM, Love-Homan L, Yang L, Yi AK, Short D, Davis HL; Sequence motifs in adenoviral DNA block immune activation by stimulatory CpG motifs; Proc Natl Acad Sci U S A 1998 Oct 13;95(21):12631-6
13	AS"	Krieg AM, CpG DNA: a pathogenic factor in systemic lupus erythematosus?, J Clin Immunol 1995 Nov;15(6):284-92

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14	AD	Sheehan and Lan, Phosphorothioate Oligonucleotides Inhibit the Intrinsic Tenase Complex, Blood 92, 1617-1625 (1998)
15	AR	Lim et al., Sequence-independent inhibition of RNA transcription by DNA dumbbells and other decoys, 1997, Nuc. Acids Res. 25, 575-581; Blumenfeld et al., Nuc. Acids Res. 1993, 21, 3405-3411 → 581
16	AS	Weeratna R, Brazolot Millan CL, Krieg AM, Davis HL; Reduction of antigen expression from DNA vaccines by coadministered oligodeoxynucleotides. Antisense Nucleic Acid Drug Dev 1998 Aug;8(4):351-6

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17	AQ	Immunostimulatory oligodeoxynucleotides promote protective immunity and provide systemic therapy for leishmaniasis via IL-12- and IFN-gamma-dependent mechanisms. Walker et al., Proc Natl Acad Sci USA 1999 Jun 8 96:12 6970-5.	
18	AR	CLUSEL C ET AL: "EX VIVO REGULATION OF SPECIFIC GENE EXPRESSION BY NANOMOLAR CONCENTRATION OF DOUBLE-STRANDED DUMBBELL OLIGONUCLEOTIDES" NUCLEIC ACIDS RESEARCH, 68, OXFORD UNIVERSITY PRESS, SURREY, vol. 21, no. 15, 25 July 1993 (1993-07-25), pages 3405-3411, XP000572382 ISSN: 0305-1048 the whole document	
19	AS	KRIEG A M ET AL: "OLIGODEOXYNUCLEOTIDE MODIFICATIONS DETERMINE THE MAGNITUDE OF B CELL STIMULATION BY CPG MOTIFS" ANTISENSE & NUCLEIC ACID DRUG DEVELOPMENT, US, MARY ANN LIEBERT, INC., NEW YORK, vol. 6, no. 2, 1996, pages 133-139, XP000610233 ISSN: 1087-2906 the whole document	

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20	AO	ERIE D ET AL.: "A DUMBBELL-SHAPED DOUBLE-HAIRPIN STRUCTURE OF DNA: A THERMODYNAMIC INVESTIGATION" BIOCHEMISTRY 1987, XP002027687 the whole document.
21	AR	Hosona et al, "PROPERTIES OF BASE-PAIRING IN THE STEM REGION OF HAIRPIN ANTISENSE OLIGONUCLEOTIDES CONTAINING 2'-METHOXYNUCLEOSIDES, BIOCHIM BIOPHYS, ACTA 244, 339-344 (1995)
27	AS	

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